## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

KOFFAS ET AL.

CASE NO.: CL1596 US DIV

APPLICATION NO.: UNKNOWN

GROUP ART UNIT: UKNOWN

FILED: CONCURRENTLY HEREWITH

**EXAMINER: UNKNOWN** 

FOR: HIGH GROWTH METHANOTROPHIC BACTERIAL STRAIN

**INFORMATION DISCLOSURE STATEMENT** 

**Assistant Commissioner for Patents** Washington, D.C. 20231

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08A and PTO/SB/08B. A copy of the information is also enclosed.

Benefit of the earlier filing date of U.S. Patent Application No. 09/934,899, filed August 22, 2001 is claimed under 35 USC 120 for the above-referenced application. Thus, information cited in the priority application is not supplied with this Information Disclosure Statement. See 37 CFR 1.98(d).

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

S. NEIL FELTHAM

Attorney for Applicant(s) Registration No. 36,506

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Dated: 11/L/03

Approved for use through 10/31/2002, OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449A/PTO C mplete if Known Application Number Unknown INFORMATION DISCLOSURE Filing Date Concurrently herewith STATEMENT BY APPLICANT First Named Inventor KOFFAS ET AL. **UNKNOWN** Group Art Unit (use as many sheets as necessary) **Examiner Name** UNKNOWN Sheet of **CL1596 US DIV** Attorney Docket Number

U.S. PATENT DOCUMENTS							
		U.S. Patent Document	Name of Patentee or Applicant	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevan		
Examiner Cite No.1	Cite No. <sup>1</sup>	Number Kind Code <sup>2</sup> (if known)	of Cited Document		Passages or Relevant Figures Appear		
		5,750,821	Inomata et al.	05/12/1998			
		4,348,476	Hou	09/07/1982			
		2002/0110885	KOFFAS, M	08/15/2002			
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		Foreign Patent Document			Name of Patentee	Date of Publication of	Pages, Columns, Lines,	
Examiner Initials*	Cite No. <sup>1</sup>	Office <sup>3</sup>		ind Code <sup>5</sup> if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		wo	2000007718	A1	Enitecnologie	02/17/2000		
		WO	9,633,821	A1	Shaw	10/31/1996		
		EP	0220 951	A2	Celanese Crop.	05/06/1987		
		wo	90 12105	A2	Univ. Minnesota	10/18/1990		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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Compl te if Kn wn				
Application Number	UNKNOWN			
Filing Date	CONCURRENTLY HEREWITH			
First Named Inventor	KOFFAS ET AL.			
Group Art Unit	UKNOWN			
Examiner Name	UNKNOWN			
Attorney Docket Number	CL1596 US DIV			

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner nitials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
		Methane and Methanol Utilizers (Biotechnology Handbook 5, J. Colin Murrell and Howard Dalton eds. 1992, Pleanum Press NY, pp. 23-84	
		Murrell et al., Molecular biology and regulation of methane monooxygenase, Arch. Microbiol. , 2000, 173(5-6), 325-332	
		Grigoryan, E. A, Kinet. Catal. , Catalytic Activation and Functionalization of Methane, 1999, 40(3), 350-363	
		Sharpe, D. H. Bio Protein Manfacture, 1989, Ellis Horwood series in applied science and industrial technology, New York: Halstead Press	
		Villadsen, J., Recent Trends Chem. React. Eng., (Proc. Int. Chem. React. Eng. Conf.), 2 <sup>nd</sup> 1987, Volume 2, 320-333.	
		Editor(s) Kulkarni, B. D.: Mashelkar, R. A.; Sharma, M. M. Publisher; Wiley East, New Delhi, India; Naguib, M., Proc. OAPEC Symp. Petroprotein (Pap), 1980, Meeting Date 1979, 253-77 Publisher: Organ. Arab Pet. Exporting Countries, Kuwait	
		Tsien et al., Gas, Oil, Coal, Environ. Biotechnol. 2, Pap. Int. IGT Symp. Gas, Oil Coal, Environ. Biotechnol., 2 <sup>nd</sup> , 1990, 83-104. Editors Akin et al., Publisher: Inst. Gas. Technol., Chicago, IL	
		Merkley et al., Biorem. Recalcitrant Org., Pap. Int. In Situ On-Site Bioreclam. Symp., 3 <sup>rd</sup> , 1995, 165-74, Editors Hinchee et al., Publisher: Battelle Press, Columbus, OH	
		Meyer et al., Development of techniques for the bioremediation of soil, air and groundwater polluted with chlorinated hydrocarbons: the demonstration project at the model site in Eppelheim, Microb. Releases, 1993, 2(1), 11-22	
		Ivanova et al., Production of Organic Exometabolities by Diverse Cultures of Obligate Methanotrophs, Mikrobiologiya, 1988, 57(4), 600-5	
		Kilbane, John J., Gas, Oil, Coal, Environ. Biotechnol. 3 (Pap. IGT's Int. Symp.), 3 <sup>rd</sup> 1991, Meeting Date 1990, 207- 26. Editors Akin et al., Publisher. IGT, Chicago, IL	
		Urakami et al., Occurrence of Isoprenoid Compounds in Gramnegative Methanol-, Methane-, and Methylamine- Utilizing Bacteria, J. Gen. Appl. Microbiol. 1986, 32(4), 317-41	
		Dijkhuizen, L. P. R. Levering, G. E. DeVries, 1992, In:Methane and Methanot Utilizers, Biotechnology Handbooks 5, J. Colin Murrell and Howard Dalton eds, 1992 Pleanum Press NY pp. 149-181	
		Beschastnyi et al., Inst. Biochem. Physiol. Microor., Pushchino, Russia, Biokhimiya (Moscow) 1992, 57(8), pp. 1215-1221	
		Shishkina et al., Inst. Bikhim. Fiziol. Mikroorg., Pushchino, Russia, Mikrobiologiya, 1990, 59(4), 533-8	
		Trotsenko et al., Studies on Phosphate metabolism in obligate methanotrophs, Fems Microbiology Reviews 87, 1990, pp. 267-272	
		Shishkina et al., Effect of Glucose on the Growth and Metabolism of Obligate Methanotrophs, vol. 57, No. 6, 1988, ppl. 917-923	
		Alexandra et al., "Characterization and Phylogency of the PFP Gene of Amycolatopsis Methanolica Encoding PPI- Dependent Phosphofructokinase* Journal of Bacteriology, Washington, D.C. Vol. 178, No. 1, January 1996, pp. 149-155, XP002935145	

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